

WHAT IS CLAIMED IS:

- 1 1. A concrete transport vehicle comprising:
 - 2 a chassis having a front end and a rear end;
 - 3 a mixing drum supported by the chassis, the drum having a first end
 - 4 and a second end and an opening in communication with a discharge hopper and a
 - 5 main chute;
 - 6 a pedestal extending between the chassis and one end of the drum to
 - 7 support that end of the drum,
 - 8 a cab enclosure supported by the chassis and,
 - 9 an extension chute operatively aligned with the main chute, with the
 - 10 extension chute comprising:
 - 11 a chute assembly including:
 - 12 a frame having a first end and a second end, with each end
 - 13 including an arcuate end angle member maintained in a spaced apart relationship by
 - 14 a pair of chute rails attached to each end angle member, and
 - 15 a chute skin mounted within the frame and attached to each
 - 16 chute rail and each end angle member, wherein the chute assembly defines a
 - 17 longitudinally elongated concave chute; and
 - 18 a removable liner mounted within the chute assembly adjacent to the
 - 19 chute skin.
- 1 2. The vehicle of claim 1, wherein the mixing drum is configured to
 - 2 discharge concrete from one of the first end and the second end.
- 1 3. The vehicle of claim 1, including a hook mounted on each chute rail
 - 2 proximate the second end of the chute assembly and a bracket assembly mounted on
 - 3 each chute rail proximate the first end of the chute assembly.
- 1 4. The vehicle of claim 3 wherein the chute rails mounted on the chute
 - 2 are configured to releasably engage and support the liner.
- 1 5. The vehicle of claim 4, wherein the liner is composed of plastic.

1 6. The vehicle of claim 4, wherein the frame and chute skin are
2 composed of aluminum.

1 7. The vehicle of claim 6, including an elongated channel attached to
2 each end angle member and to the chute skin.

1 8. The vehicle of claim 7, wherein the elongated channel is composed
2 of aluminum.

1 9. The vehicle of claim 4, wherein the chute rails are each configured,
2 in conjunction with a liner flange, to form a liner pocket to receive the liner and
3 removably retain the liner within the extension chute.

1 10. The vehicle of claim 9, wherein the chute rail and the liner flange are
2 composed of the same material and forms a single, integral member.

1 11. An extension concrete chute comprising:

2 a chute assembly including:

3 a frame having a first end and a second end, with each end
4 including an arcuate end angle member maintained in a spaced apart relationship by
5 a pair of chute rails attached to each end angle member, and

6 a chute skin mounted within the frame and attached to each
7 chute rail and each end angle member, wherein the chute assembly defines a
8 longitudinally elongated concave chute; and

9 a removable liner mounted within the chute assembly adjacent to the
10 chute skin.

1 12. The chute of claim 11, including a hook mounted on each chute rail
2 proximate the second end of the chute assembly and a bracket assembly mounted on
3 each chute rail proximate the first end of the chute assembly.

1 13. The chute of claim 11 wherein the chute rails mounted on the chute
2 are configured to releasably engage and support the liner.

1 14. The chute of claim 13, wherein the liner is composed of plastic.

- 1 15. The chute of claim 13, wherein the frame and chute skin are
2 composed of aluminum.
- 3 16. The chute of claim 15, including an elongated channel attached to
4 each end angle member and to the chute skin.
- 1 17. The chute of claim 16, wherein the elongated channel is composed of
2 aluminum.
- 1 18. The chute of claim 13, wherein the chute rails are each configured,
2 in conjunction with a liner flange, to form a liner pocket to receive the liner and
3 removably retain the liner within the extension chute.
- 1 19. The chute of claim 18, wherein the chute rail and the liner flange are
2 composed of the same material and form a single, integral member.
- 1 20. A method for reducing wear of an extension concrete chute with the
2 chute having a chute skin and a pair of chute rails with each chute rail having a
3 bracket assembly mounted on one end and a hook mounted on a second end, the
4 method comprising the steps of:
5 orientating and aligning a liner having a notch at one end with the
6 first end of each chute rail;
7 inserting the liner into a liner pocket formed in each chute rail; and
8 sliding the liner in the liner pocket until the notch in the liner abuts
9 against the hook on each chute rail and the liner is adjacent to the chute skin.
- 1 21. The method of claim 20, including the steps of:
2 sliding the liner out of the liner pocket in each chute rail; and
3 installing a new liner in accord with the three steps of claim 20.
- 1 22. The method of claim 20, wherein the chute is aluminum.
- 1 23. The method of claim 22, wherein the liner is plastic.